



IDEM's Surface Water Quality Assessment Program

Source Identification – Water Quality Impairment

Program Objective

The objective of the Source Identification – Water Quality Impairment Program (Source ID) is to conduct follow-up studies to determine the magnitude and sources of water chemistry stream impairments. The Assessment Branch conducts water quality monitoring and assessments on one fifth of the State each year based on a rotating basin strategy. The entire state is assessed every five years. Impaired stream conditions are identified by monitoring and assessment from various programs and from historical 303(d) impaired stream listings. Source ID, or follow-up studies, determine the sources of stream impairments. Each year, water chemistry impairments are reviewed according to the magnitude and type of pollutant in order to generate a prioritized project list for that field season. The impaired locations are initially researched using a checklist of in-house historical data and a multitude of informational sources including the internet. This checklist helps to gather and organize information about the site being studied. Sampling plans are then generated for conducting a Source ID study for gathering additional data that are needed in the decision process. This program not only confirms or determines source(s) of impairments, but makes the appropriate referrals for follow-up and correction of the problem. Source identification is a basic component of USEPA 305(b) guidance which encourages states to document impairment sources as part of the assessment process. The number and type of studies that can be conducted each field season are limited due to staffing levels.

Program Participants

The Water Chemistry component of the Source ID Program is carried out by the efforts of various Surveys staff as resources allow. In 2006 one Surveys staff member has been assigned to address Water Chemistry Source ID study needs as part of his overall work assignments.

Program Description

Media:	Surface Water: rivers and streams
Study Area:	Statewide rotating basins (Ohio River Tributary Basins and Great Lakes Basins in 2006)
Site Selection Type:	Targeted sites
Sampling Sites:	As needed to adequately characterize each impairment
Sampling Frequency:	To be determined by the requirements of each study
Data Collected:	In-situ water chemistry, water chemistry and sediments for laboratory analysis, macroinvertebrate community assessment, habitat evaluations and onsite physical observations as appropriate for each study

Program Product(s)

- Memorandum and assessment recommendations for the 305(b) coordinator for listing or delisting purposes and input to the Integrated Report. All information gathered, results of the study, and recommendations for the site studied will also be shared with other pertinent programs as appropriate.

Technical Notes

All Source ID Studies monitoring will adhere to the Assessment Branch Quality Assurance Project Plan and Standard Operating Procedure.

Parameters to be determined by the requirements of each study

Contact Information

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<p>IDEM Information: (317) 232-8603 or 800-451-6027 800-743-3333(TDD) toll-free for Indiana residents www.IN.gov/idem/water/</p> <p>Report Environmental Emergencies: (888) 233-7745</p> <p>Confidential Technical Assistance: (800) 988-7901</p> <p>Pollution Complaint: www.IN.gov/idem/pollutioncomplaints/</p> <p>Questions and Comments: www.IN.gov/idem/contact/questions.html</p>	<p><u>For More Information on IDEM's Office of Water Quality...</u></p> <p>Assessment Branch (Surface water quality monitoring: rivers and streams, lakes, water quality standards) Shadeland Office, Indianapolis (317) 308-3173</p> <p>Compliance Branch (Compliance and inspections, data and information services, wastewater certification and continuing education) Indiana Government Center North, Indianapolis (317) 233-2545</p> <p>Drinking Water Branch (Public water supply supervision and ground water protection) Shadeland Office, Indianapolis (317) 308-3308</p> <p>Permitting Branch (Facilities Construction & Engineering Support, Industrial & municipal permits, modeling, and wet weather) Indiana Government Center North, Indianapolis (317) 232-8760</p> <p>Watershed Planning Branch (Rules development, wetlands, TMDL, watershed management) Indiana Government Center North, Indianapolis (317) 233-8488</p>
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